

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
May 2001

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Governor
State of California

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Secretary for Resources
The Resources Agency

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Director
Department of Water Resource

State of California
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The organization shown above represents staff and positions relevant to this report as of publication date on November 25, 2001. It is the department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of May 2001.

The High Sierra snowpack was depleted in May at about twice the normal rate. Record daytime temperatures and night temperatures above freezing caused twenty-four hour melt at all elevations during the hottest periods. The snowpack had melted at all snow sensor sites, leaving snow at only the highest, sheltered locations to contribute to June runoff. The accelerated snowmelt peaked in most San Joaquin River and Tulare Lake tributaries between May 9 and 12. The rivers receded very quickly thereafter. More than 180 daily high temperature records were set at stations ranging from the north coast to the Colorado desert

Statewide precipitation through May was 75 percent of average for the 2000-2001 water year. May was very dry, with statewide precipitation at 15 percent of average. Most stations had no rain, and very few stations reported more than an inch. Since May usually accounts for only four percent of our annual precipitation, the effect on water supply was limited. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: "http://cdec.water.ca.gov/snow_rain.html".

Statewide runoff during May was two thirds of average, but runoff in the San Joaquin River and Tulare Lake regions was closer to average due to the accelerated snowmelt. The seasonal volume since October 1 remained half of average.

On May 31, total storage in major SWP reservoirs was about 3.56 MAF, compared with about 4.7 MAF at this time in 2000. The average storage in the major SWP reservoirs at the end of May is about 4.5 MAF. The May 31 storage at Lake Oroville was about 2.12 MAF as compared to 3.1 MAF last year. The State's share of San Luis Reservoir storage was about 816 TAF, as compared with 762 TAF at this time last year. On May 31, the combined storage in our southern reservoirs was about 631 TAF, compared with about 653 TAF at this time last year.

Through May, SWP water deliveries for 2001 were about 716,700 AF. This is a combination of project, transfer, and exchange waters. This is 458,800 AF less than delivered during the same period in 2000

Delta operations were adjusted as needed to meet several objectives. First, exports remained at 1,500 cfs through May 20. For the first 20 days of the month, exports remained low as part of the Vernalis Adaptive Management Program (VAMP) experiment. However, as delta smelt salvage increased, these low export levels continued between May 21 and May 31 as part of an Environmental Water Account (EWA) action to reduce entrainment of larvae. Exports were reduced about 15 TAF. A total of 42 TAF were expended as part of the VAMP experiment for both April and May.

Upstream operations were adjusted during May to address Delta water quality concerns. Electrical conductivity readings at Emmaton began to approach the standard for that location, prompting increases in releases from 1,250 cfs to 3,000 cfs. By the end of the month, Sacramento River flow had increased from about 8,000 cfs to about 12,000 cfs to improve Emmaton water quality. The cross channel gates remained closed per Decision 1641 through May 21. After that date, they were opened on the weekends to facilitate recreational passage through the cross channel and closed again on the weekdays to increase the amount of water passing Emmaton.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

May 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Apr 30	4996.62	17,871								
1	4996.67	17,912	41	5	0	0	0			
2	4996.71	17,945	33	5	0	0	0			
3	4996.75	19,777	1,832	5	0	0	0			
4	4996.79	18,010	-1,767	5	0	0	0			
5	4996.84	18,051	41	5	0	0	0			
6	4996.87	18,075	24	5	0	0	0			
7	4996.89	18,092	17	5	0	0	0			
8	4996.92	18,116	24	5	0	0	0			
9	4996.93	18,124	8	5	0	0	0			
10	4996.94	18,133	9	5	0	0	0			
11	4996.96	18,149	16	5	0	0	0			
12	4996.96	18,149	0	5	0	0	0			
13	4996.97	18,157	8	5	0	0	0			
14	4996.97	18,157	0	5	0	0	0			
15	4996.98	18,165	8	5	0	0	0			
16	4997.07	18,190	25	5	0	0	0			
17	4997.00	18,182	-8	5	0	0	0			
18	4997.01	18,190	8	5	0	0	0			
19	4997.00	18,182	-8	5	0	0	0			
20	4997.00	18,182	0	5	0	0	0			
21	4996.98	18,165	-17	5	0	0	0			
22	4996.98	18,165	0	5	0	0	0			
23	4996.97	18,157	-8	5	0	0	0			
24	4996.96	18,149	-8	5	0	0	0			
25	4996.95	18,141	-8	5	0	0	0			
26	4996.93	18,124	-17	5	0	0	0			
27	4996.91	18,108	-16	5	0	0	0			
28	4996.89	18,092	-16	5	0	0	0			
29	4996.92	18,116	24	5	0	0	0			
30	4996.88	18,083	-33	5	0	0	0			
31	4996.87	18,075	-8	5	0	0	0			
Total cfs-days				- - -	155	0	0	0	132	
Total ac-ft				204	307	0	0	0	262	
									569	
									773	

1/ Values not available on a daily basis.

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

May 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Apr 30	5579.34	42,821								
1	5579.39	42,888	67	0	23	0	0			
2	5579.30	42,767	-121	0	31	0	0			
3	5579.24	42,686	-81	0	35	0	0			
4	5579.21	42,646	-40	0	41	0	0			
5	5579.10	42,498	-148	0	44	0	0			
6	5579.03	42,404	-94	0	44	0	0			
7	5578.94	42,284	-120	0	59	0	0			
8	5578.79	42,084	-200	0	96	0	0			
9	5578.67	41,924	-160	0	112	0	0			
10	5578.42	41,592	-332	0	114	0	0			
11	5578.29	41,420	-172	0	113	0	0			
12	5578.15	41,235	-185	0	112	0	0			
13	5577.95	40,973	-262	0	112	0	0			
14	5577.74	40,698	-275	0	108	0	0			
15	5577.55	40,450	-248	0	106	0	0			
16	5577.41	40,268	-182	0	105	0	0			
17	5577.29	40,112	-156	0	73	0	0			
18	5577.16	39,944	-168	0	54	0	0			
19	5577.08	39,841	-103	0	54	0	0			
20	5577.02	39,764	-77	0	54	0	0			
21	5576.90	39,609	-155	0	55	0	0			
22	5576.79	39,468	-141	0	53	0	0			
23	5576.74	39,404	-64	0	51	0	0			
24	5576.65	39,289	-115	0	51	0	0			
25	5576.54	39,149	-140	0	48	0	0			
26	5576.47	39,059	-90	0	46	0	0			
27	5576.35	38,907	-152	0	46	0	0			
28	5576.28	38,818	-89	0	44	0	0			
29	5576.23	38,754	-64	0	36	0	0			
30	5576.12	38,615	-139	0	33	0	0			
31	5576.05	38,527	-88	0	31	0	0			
Total cfs-days				---	0	1,984	0	0	329	
Total ac-ft				-4,294	0	3,935	0	0	653	
									2,313	
									148	
									294	

1/ Values not available on a daily basis.

Table 3. Lake Davis

Daily Operation
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

May 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Apr 30	5767.50	57,068								
1	5767.50	57,068	0	8	0	2	0			
2	5767.45	56,906	-162	6	0	4	0			
3	5767.43	56,841	-65	6	0	4	0			
4	5767.42	56,809	-32	6	0	4	0			
5	5767.42	56,809	0	6	0	4	0			
6	5767.42	56,809	0	6	0	4	0			
7	5767.42	56,809	0	6	0	4	0			
8	5767.42	56,809	0	6	0	4	0			
9	5767.41	56,776	-33	6	0	4	0			
10	5767.37	56,647	-129	6	0	4	0			
11	5767.33	56,517	-130	6	0	5	0			
12	5767.30	56,421	-96	6	0	5	0			
13	5767.27	56,324	-97	5	0	5	0			
14	5767.23	56,196	-128	5	0	5	0			
15	5767.20	56,098	-98	5	0	5	0			
16	5767.20	56,098	0	5	0	5	0			
17	5767.20	56,098	0	5	0	5	0			
18	5767.19	56,066	-32	5	0	5	0			
19	5767.18	56,034	-32	5	0	5	0			
20	5767.16	56,030	-4	5	0	5	0			
21	5767.13	55,970	-60	5	0	5	0			
22	5767.12	55,874	-96	5	0	5	0			
23	5767.11	55,842	-32	5	0	5	0			
24	5767.08	55,810	-32	5	0	5	0			
25	5767.05	55,713	-97	8	0	2	0			
26	5767.02	55,617	-96	10	0	0	0			
27	5766.98	55,521	-96	10	0	0	0			
28	5766.94	55,266	-255	10	0	0	0			
29	5766.93	55,234	-32	10	0	0	0			
30	5766.91	55,171	-63	10	0	0	0			
31	5766.89	55,107	-64	10	0	0	0			
Total cfs-days				---	203	0	107	0	739	
Total ac-ft				-1,961	402	0	213	0	1,465	
									2,080	
									119	

1/ Values not available on a daily basis.

Table 4. Lake Oroville

Daily Operation
(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

May 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Apr 30	799.70	2,188,360								
	1	799.89	2,190,501	2,141	9,870	20	173	0	10,063	1,683
	2	800.09	2,192,757	2,256	8,942	20	248	0	9,210	991
	3	799.92	2,190,839	-1,918	11,357	27	303	0	11,687	992
	4	799.76	2,189,035	-1,804	10,817	35	285	0	11,137	1,019
	5	799.67	2,188,021	-1,014	9,485	35	248	0	9,768	1,008
	6	801.07	2,203,385	15,364	0	35	248	0	283	7,988
	7	800.53	2,197,726	-5,659	15,032	34	242	0	15,308	543
	8	800.42	2,196,483	-1,243	12,645	32	255	0	12,932	1,007
	9	800.11	2,192,983	-3,500	14,170	34	273	0	14,477	1,011
	10	800.03	2,192,080	-903	11,964	34	260	0	12,258	1,004
	11	799.94	2,191,065	-1,015	11,995	34	278	0	12,307	975
	12	799.89	2,190,501	-564	11,259	34	254	0	11,547	1,008
	13	801.06	2,203,722	13,221	1,511	34	210	0	1,755	6,132
	14	800.65	2,199,083	-4,639	12,391	34	168	0	12,593	826
	15	800.34	2,195,580	-3,503	12,738	34	124	0	12,896	826
	16	800.03	2,192,080	-3,500	11,711	34	105	0	11,850	1,008
	17	799.49	2,185,993	-6,087	12,576	34	241	0	12,851	828
	18	799.24	2,183,180	-2,813	10,065	34	210	0	10,309	826
	19	799.25	2,183,293	113	7,684	34	321	0	8,039	826
	20	799.48	2,185,881	2,588	7,482	34	291	0	7,807	4,551
	21	799.21	2,182,843	-3,038	11,096	34	353	0	11,483	1,000
	22	798.65	2,176,550	-6,293	12,977	34	296	0	13,307	996
	23	797.95	2,168,702	-7,848	13,485	34	241	0	13,760	984
	24	797.17	2,159,981	-8,721	15,094	34	283	0	15,411	684
	25	796.19	2,149,058	-10,923	15,510	34	276	0	15,820	1,009
	26	795.94	2,146,278	-2,780	7,588	34	214	0	7,836	1,025
	27	796.66	2,154,292	8,014	968	34	232	0	1,234	4,951
	28	796.62	2,153,846	-446	4,760	34	202	0	4,996	1,903
	29	795.78	2,144,500	-9,346	13,517	34	172	0	13,723	1,551
	30	794.64	2,131,863	-12,637	17,221	34	244	0	17,499	1,014
	31	793.46	2,118,838	-13,025	17,476	34	317	0	17,827	966
Total		-69,522		333,386	1,020	7,567	0	341,973	51,135	221,316

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

May 2001

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Apr 30	23,193										
1	23,265	72	9,870	234	1,303	8,561	0	10	1,233	1,683	152
2	23,707	442	8,942	240	1,430	8,132	0	10	1,233	991	196
3	23,677	-30	11,357	276	1,225	11,115	0	10	1,229	992	458
4	23,593	-84	10,817	234	1,600	10,650	0	10	1,229	1,019	173
5	24,379	786	9,485	284	1,622	8,416	0	10	1,229	1,008	58
6	22,423	-1,956	0	286	6,820	0	0	11	1,230	7,988	167
7	23,560	1,137	15,032	393	769	13,488	0	11	1,231	543	216
8	23,169	-391	12,645	500	1,348	12,952	0	11	1,233	1,007	319
9	23,295	126	14,170	502	1,590	14,071	0	11	1,232	1,011	189
10	24,325	1,030	11,964	506	1,609	10,914	0	11	1,233	1,004	113
11	23,738	-587	11,995	508	1,572	12,544	0	11	1,239	975	107
12	23,855	117	11,259	528	1,614	11,154	0	11	1,241	1,008	130
13	23,892	37	1,511	486	6,882	1,433	0	11	1,239	6,132	-27
14	23,971	79	12,391	502	1,309	12,210	0	11	1,241	826	165
15	23,507	-464	12,738	359	1,276	12,753	0	11	1,245	826	-2
16	23,188	-319	11,711	258	1,533	11,715	0	11	1,235	1,008	148
17	23,342	154	12,576	315	1,360	12,930	0	11	1,222	828	894
18	23,538	196	10,065	290	1,289	10,070	0	11	1,220	826	679
19	23,916	378	7,684	458	1,522	6,925	0	11	1,218	826	-306
20	23,745	-171	7,482	477	3,567	7,111	0	11	1,220	4,551	1,196
21	23,720	-25	11,096	512	1,556	11,033	0	11	1,218	1,000	73
22	22,979	-741	12,977	506	1,488	13,686	0	11	1,228	996	209
23	23,635	656	13,485	512	1,599	13,030	0	11	1,227	984	312
24	22,729	-906	15,094	504	1,074	15,759	0	11	1,226	684	102
25	23,488	759	15,510	508	1,567	14,672	0	11	1,224	1,009	90
26	23,363	-125	7,588	514	1,634	7,601	1	11	1,224	1,025	1
27	23,364	1	968	395	5,813	885	1	11	1,227	4,951	-100
28	23,380	16	4,760	317	2,880	4,888	1	11	1,226	1,903	88
29	23,479	99	13,517	375	2,227	13,253	1	11	1,228	1,551	24
30	22,651	-828	17,221	349	1,535	17,966	1	11	1,222	1,014	281
31	23,217	566	17,476	452	1,594	16,884	1	11	1,220	966	126
Total		24	333,386	12,580	64,207	326,801	6	336	38,102	51,135	6,231

1/ Sum of Thermalito Forebay and Diversion Pool.

3/ Includes Bypass flows at Thermalito.

2/ Sum of releases from Lake Oroville through Hyatt plant, spill, and spillway leakage.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

May 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Apr 30	127.28	23,717											
	1	127.71	24,969	1,252	8,561	2,440	13	692	1,109	1,258	1,303	-494	2,491
	2	128.06	26,011	1,042	8,132	2,777	30	766	1,174	1,059	1,430	146	2,292
	3	129.11	29,258	3,247	11,115	2,936	48	855	1,315	1,059	1,225	-430	2,288
	4	129.86	31,688	2,430	10,650	3,015	50	881	1,591	1,061	1,600	-22	2,290
	5	129.68	31,096	-592	8,416	3,055	52	901	1,839	1,357	1,622	-182	2,586
	6	124.86	17,232	-13,864	0	3,134	52	906	1,984	1,353	6,820	385	2,583
	7	126.67	21,993	4,761	13,488	3,173	40	910	2,103	1,363	769	-369	2,594
	8	127.93	25,621	3,628	12,952	3,173	30	897	2,222	1,369	1,348	-285	2,602
	9	129.33	29,961	4,340	14,071	3,253	18	891	2,321	1,355	1,590	-303	2,587
	10	129.73	31,260	1,299	10,914	3,391	12	891	2,380	1,359	1,609	27	2,592
	11	130.44	33,629	2,369	12,544	3,430	12	891	2,439	1,357	1,572	-474	2,596
	12	130.79	34,827	1,198	11,154	3,412	12	891	2,439	1,755	1,614	167	2,996
	13	126.35	21,114	-13,713	1,433	3,372	28	889	2,380	1,761	6,882	166	3,000
	14	127.27	23,688	2,574	12,210	3,312	38	891	2,321	1,755	1,309	-10	2,996
	15	127.95	25,681	1,993	12,753	3,293	34	891	2,162	2,756	1,276	-348	4,001
	16	128.33	26,828	1,147	11,715	3,253	30	857	1,958	2,756	1,533	-181	3,991
	17	129.16	29,417	2,589	12,930	3,174	30	841	1,878	2,756	1,360	-302	3,978
	18	129.11	29,258	-159	10,070	3,134	19	748	1,793	2,756	1,289	-490	3,976
	19	128.08	26,071	-3,187	6,925	3,154	14	662	1,730	2,757	1,522	-273	3,975
	20	126.29	20,951	-5,120	7,111	3,094	9	641	1,642	2,757	3,567	-521	3,977
	21	126.87	22,551	1,600	11,033	2,995	8	643	1,580	2,757	1,556	106	3,975
	22	128.25	26,585	4,034	13,686	2,975	9	670	1,601	2,757	1,488	-152	3,985
	23	129.21	29,577	2,992	13,030	2,995	10	682	1,609	2,757	1,599	-386	3,984
	24	131.10	35,905	6,328	15,759	3,015	13	684	1,580	2,757	1,074	-308	3,983
	25	132.41	40,627	4,722	14,672	3,015	20	684	1,580	2,757	1,567	-327	3,981
	26	131.83	38,503	-2,124	7,601	2,955	24	682	1,580	2,757	1,634	-93	3,981
	27	127.97	25,741	-12,762	885	2,836	22	641	1,480	2,876	5,813	21	4,103
	28	125.63	19,194	-6,547	4,888	2,757	12	621	1,339	3,828	2,880	2	5,054
	29	126.30	20,978	1,784	13,253	2,698	9	623	1,283	4,265	2,227	-364	5,493
	30	128.63	27,751	6,773	17,966	2,737	10	625	1,285	4,760	1,535	-241	5,982
	31	130.42	33,562	5,811	16,884	2,737	15	623	1,283	4,760	1,594	-61	5,980
Total				9,845	326,801	94,690	723	23,970	54,980	72,790	64,207	-5,596	110,892

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

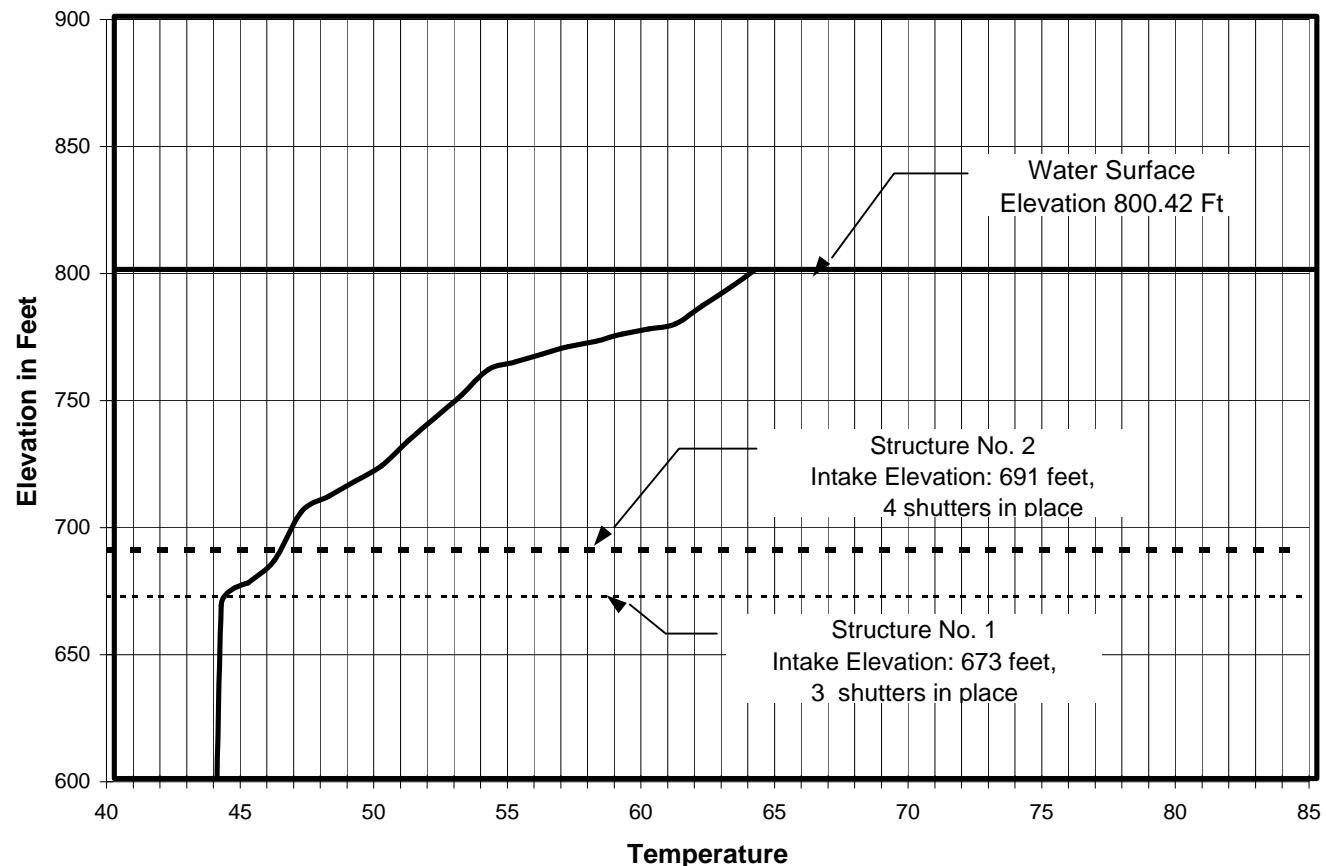
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

May 2001

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	66	50
2	62	49
3	61	49
4	61	49
5	63	49
6	64	50
7	66	51
8	65	49
9	64	49
10	65	49
11	63	50
12	61	49
13	62	50
14	64	51
15	63	49
16	64	50
17	63	50
18	64	51
19	64	51
20	65	52
21	67	52
22	67	51
23	66	51
24	64	52
25	62	52
26	60	52
27	61	53
28	65	54
29	65	54
30	66	53
31	65	53

**Lake Oroville Temperature Profile
on May 16, 2001**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

May 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending					Entitlement		Ex-change		
	No.	Structure	Mile			M & I	Benicia			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	4,155	254	463	1,036		
		Travis Surge Tank	8.78							
			8.80	Solano County Water Agency Travis Turnout	254					
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	463					
				Solano County Water Agency Fairfield / Vacaville 42"	1,036					
2			17.00	Solano County Water Agency Central Solano	Stub					
3A		Cordelia Forebay	21.23			770	968	770		
		Cordelia Pumping Plant & Cordelia Spillway	21.30		2,247					
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	770					
3B	2	Cordelia Surge Tank	23.33			7	291	211		
		Creston Surge Tank Connection	25.65							
			26.95	Napa County Flood Control & WCD American Canyon 2	7					
			27.27	Napa County Flood Control & WCD American Canyon 3	0					
		Napa Terminal Tank	27.58	City of Napa	291					
			27.60	Napa County Flood Control & WCD American Canyon 1	211					

Table 9. Delta Field Division Plant Data

(in acre-feet)

May 2001

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	151	73	2,262	2,262	491	198	0	0
2	138	65	1,472	1,472	404	121	0	0
3	117	63	1,597	1,597	451	178	0	0
4	134	69	1,638	1,638	498	184	0	0
5	151	70	1,644	1,644	481	182	0	0
6	170	75	1,639	1,639	472	181	0	0
7	156	75	1,634	1,634	490	179	0	0
8	148	76	1,643	1,643	528	174	0	0
9	178	87	443	443	522	168	0	0
10	179	88	1,000	1,000	541	171	0	0
11	170	85	1,445	1,445	546	180	0	0
12	165	72	1,622	1,622	522	179	0	0
13	159	62	1,619	1,619	517	177	0	0
14	153	75	1,619	1,619	340	1	0	0
15	122	60	1,182	1,182	334	0	0	0
16	150	76	1,163	1,163	344	0	0	0
17	128	72	1,208	1,208	360	0	0	0
18	94	51	1,274	1,274	347	0	0	0
19	101	39	1,186	1,186	337	0	0	0
20	81	33	1,269	1,269	337	0	0	0
21	115	73	1,275	1,275	387	0	0	0
22	130	95	1,154	1,154	385	0	0	0
23	118	85	422	422	368	0	0	0
24	110	80	449	449	397	0	0	0
25	114	80	482	482	355	0	0	36
26	112	72	484	484	228	0	0	139
27	118	68	533	533	198	0	0	164
28	111	69	465	465	130	0	0	230
29	118	80	0	0	177	0	0	243
30	125	82	0	0	47	0	0	250
31	139	97	0	0	81	0	0	268
Total	4,155	2,247	33,823	33,823	11,615	2,273	0	1,330

Table 10. Clifton Court Forebay

Daily Operation of Gates

May 2001

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	2:30	4:38							1,440
2	4:30	5:30	15:09	15:45					1,468
3	4:57	11:10	13:30	20:57					1,435
4	5:34	12:03	14:50	17:30					1,472
5	7:00	11:49	15:00	17:00					1,488
6	6:50	8:20							1,467
7	0:30	1:30	8:44	9:45	22:30	---			1,461
8	---	2:10	7:53	8:20	20:10	21:30			1,154
9	1:00	4:53	19:16	20:37					392
10	1:28	3:37	13:12	13:50	18:36	19:13			1,082
11	0:35	3:26							1,479
12	0:15	2:42							1,469
13	1:19	3:33							1,478
14	4:18	7:48	13:20	14:12					1,470
15	3:15	5:09							1,274
16	3:48	6:26	17:30	18:10					1,274
17	4:20	7:57							1,269
18	4:50	9:10	19:01	19:40					1,267
19	5:18	9:15							1,272
20	6:50	11:28							1,269
21	6:16	9:42	18:11	19:50					1,278
22	8:06	12:07	19:10	21:40					1,278
23	8:39	12:43							1,271
24	7:58	11:30							1,274
25	0:01	3:01	10:10	11:35					1,261
26	0:01	3:55	9:26	10:45					1,271
27	0:18	4:55	11:20	13:13					1,406
28	1:00	3:35							1,145
29	---								0
30	---								0
31	---								0
Total inflow for the month in AF:									36,564

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

May 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Entitle-ment	USBR	Local	Loan Water	Carryover Ent.		
	No.	Structure										
1	Banks Pumping Plant	3.32			33,823							
2A	1	South Bay Pumping Plant	4.49	Bethany Reservoir inlet	11,615	2	116	116	0	0		
		Check No. 1	5.95									
	2	Check No. 2	12.01									
	3		12.47	Musco Olive	0							
		Check No. 3	18.29									
	4		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
	5	Check No. 5	29.73									
	6	Check No. 6	34.24									
	7		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
2B	8		42.46	Oak Flat Water District-A	2	144	116	116	0	0		
			42.9	Western Hills WD	116							
			43.81	Oak Flat Water District-B	144							
			44.64	Oak Flat Water District-C	182							
		Check No. 8	45.97									
	9		46.18	Oak Flat Water District-D	316	316	0	0	0	0		
				Oak Flat Totals:	644							
		Check No. 9	51.3									
	10	Check No. 10	56.86									
	11	Check No. 11	61.4									
	12		66.14	Veteran's Cemetery	7	7	0	0	0	0		
		Check No. 12	66.71									

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

May 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		Structure			Entitlement	General Wheeling	Local	Recreation	
	No.	Structure	Mile							
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	11,615	3	1,019	172	58	
			3.17	Granite - Vasco Rd. (Temp.)	0					
			3.18	Oakland Scavenger Zone 7	3					
		Check No. 1	3.91							
	2	Check No. 2	5.21							
2	3		7.21	Zone 7 Altamont	0	1,019	172	58	18	
		Check No. 3	9.49	Zone 7 Patterson Stored Exchange	0					
				Zone 7 Patterson Project Water	1,019					
4	4	Check No. 4	10.68			28	16	68	144	
	5	Check No. 5	12.29							
	6		13.55	Zone 7 Wente #1	172					
			14.16	Zone 7 Wente #2	58					
			14.31	Ising Inflow Exchange	18					
		Check No. 6	14.65							
	7		14.78	Zone 7 Arroyo Mocho	0					
		Check No. 7	16.38							
5	8		16.57	Zone 7 Wente #3	28	88	41	144	18	
			16.69	Zone 7 Norman Nursery	16					
			16.70	Zone 7 Concannon Project Water	68					
		Del Valle Branch Pipeline Junction	18.63	(Pumped into Lake Del Valle)	2,276					
				(Flow into South Bay Aqueduct)	1,330					
		Deliveries through Del Valle Branch Pipleline		Arroyo Valle #1 & #2 Project Water	0					
				Arroyo Valle #1 & #2 Inflow Released	144					
				Lake Del Valle Recreation	18					
				Zone 7 Wente #5	88					
				So. Livermore Project	41					
6			19.20	So. Livermore Stored Released	1,186	148	1,186	1,152	2,062	
				So. Livermore Stored Exchanged	1,152					
			19.21	Zone 7 - Kalthrof Detjens	148					
7		La Costa Tunnel	22.50	ACWD Vallecitos Project Water	0	4,341	2,062	4,341	4,341	
			25.97	City of San Francisco San Antonio	0					
8		Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water:	0	4,341	2,062	4,341	4,341	
				Inflow Released	0					
9		Santa Clara Pipeline		Stored Exchange:	2,062					
			35.86	S.C.V.W.D. Meter	4,341					

Table 13. Lake Del Valle

Daily Operation

(in acre-feet except as noted)

May 2001

Capacity: 77,106 ac-ft

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Apr 30	699.64	37,581									
	1 699.94	37,786	205	15	198	0	0	0	8	8	0.00
	2 700.11	37,903	117	10	121	0	0	0	14	14	0.00
	3 700.36	38,074	171	8	178	0	0	0	15	15	0.00
	4 700.60	38,239	165	-8	184	0	0	0	11	11	0.00
	5 700.87	38,425	186	17	182	0	0	0	13	13	0.00
	6 701.12	38,598	173	5	181	0	0	0	13	13	0.00
	7 701.37	38,772	174	8	179	0	0	0	13	13	0.00
	8 701.60	38,932	160	3	174	0	0	0	17	17	0.00
	9 701.85	39,106	174	22	168	0	0	0	16	16	0.00
	10 702.09	39,274	168	11	171	0	0	0	14	14	0.00
	11 702.34	39,449	175	9	180	0	0	0	14	14	0.00
	12 702.58	39,618	169	3	179	0	0	0	13	13	0.00
	13 702.83	39,794	176	9	177	0	0	0	10	10	0.00
	14 702.81	39,780	-14	-4	1	0	0	1	10	11	0.00
	15 702.80	39,773	-7	4	0	0	0	1	10	11	0.00
	16 702.79	39,766	-7	6	0	0	0	1	12	13	0.00
	17 702.77	39,752	-14	-1	0	0	0	1	12	13	0.00
	18 702.76	39,745	-7	5	0	0	0	1	11	12	0.00
	19 702.71	39,710	-35	-21	0	0	0	1	13	14	0.00
	20 702.70	39,702	-8	1	0	0	0	1	8	9	0.00
	21 702.68	39,688	-14	-5	0	0	0	1	8	9	0.00
	22 702.67	39,681	-7	9	0	0	0	1	15	16	0.00
	23 702.64	39,660	-21	-5	0	0	0	1	15	16	0.00
	24 702.62	39,646	-14	2	0	0	0	1	15	16	0.00
	25 702.55	39,597	-49	3	0	0	36	1	15	52	0.00
	26 702.35	39,456	-141	12	0	0	139	1	13	153	0.00
	27 702.09	39,274	-182	-6	0	0	164	1	11	176	0.00
	28 701.76	39,043	-231	9	0	0	230	1	9	240	0.00
	29 701.40	38,793	-250	3	0	0	243	1	9	253	0.00
	30 701.03	38,536	-257	7	0	0	250	1	13	264	0.00
	31 700.64	38,267	-269	16	0	0	268	1	16	285	0.00
Total				686	147	2,273	0	1,330	18	386	1,734
1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.											
2/ To East Bay Regional Park District.											
NR=No Records											

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

May 2001

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Apr 30	222.53	49,793											
1	222.92	50,833	1,040	0	0	3,863	490	1,077	0	2,458	9	-285	
2	221.89	48,098	-2,735	0	0	2,501	278	1,220	0	3,068	10	140	
3	220.99	45,734	-2,364	0	0	3,278	639	1,288	905	3,056	22	162	
4	219.63	42,196	-3,538	0	0	3,455	461	1,123	0	4,234	22	-321	
5	221.81	47,887	5,691	0	0	7,335	808	1,079	0	4,081	24	-90	
6	219.94	42,997	-4,890	0	0	4,276	336	1,300	0	5,697	20	-60	
7	221.24	46,390	3,393	0	0	6,969	503	1,553	0	3,945	20	-243	
8	221.11	46,049	-341	0	0	5,505	466	1,902	0	4,237	25	21	
9	220.57	44,635	-1,414	0	0	5,942	0	1,750	0	4,656	25	-224	
10	220.40	44,192	-443	0	0	6,925	0	2,274	0	4,790	29	-55	
11	220.00	43,152	-1,040	0	0	6,951	495	2,768	0	5,198	28	24	
12	220.86	45,394	2,242	0	0	9,243	507	2,694	0	5,440	22	-464	
13	221.14	46,128	734	0	0	9,688	472	2,609	0	6,714	22	-445	
14	221.86	48,019	1,891	0	0	7,461	418	2,506	0	4,443	24	47	
15	221.32	46,600	-1,419	0	0	6,598	292	2,250	0	5,175	22	-158	
16	220.83	45,315	-1,285	0	0	6,332	336	2,021	482	4,966	22	175	
17	221.29	46,521	1,206	0	0	7,949	49	1,946	0	5,234	27	-183	
18	221.54	47,178	657	0	0	7,463	294	1,969	0	5,386	28	-43	
19	224.01	53,754	6,576	0	0	9,303	463	1,903	0	4,531	21	4	
20	221.30	46,547	-7,207	0	0	3,264	445	1,708	0	5,595	22	-17	
21	223.03	51,126	4,579	0	0	7,791	525	1,558	0	4,319	29	-101	
22	222.45	49,580	-1,546	0	0	6,090	0	1,658	0	5,202	30	21	
23	221.64	47,441	-2,139	0	0	5,677	0	1,916	0	4,823	30	14	
24	220.50	44,453	-2,988	0	0	5,907	0	1,972	0	5,302	32	-107	
25	220.58	44,661	208	0	0	7,580	0	1,880	0	5,414	31	-150	
26	221.50	47,073	2,412	0	0	8,858	0	1,702	0	5,679	23	-238	
27	219.75	42,505	-4,568	0	0	5,880	0	1,519	0	6,344	31	-289	
28	219.70	42,376	-129	0	0	7,717	0	1,517	339	5,853	29	-44	
29	221.48	47,020	4,644	0	0	9,501	0	1,567	0	5,514	29	-50	
30	221.45	46,941	-79	0	0	6,752	0	1,724	0	5,105	31	68	
31	221.34	46,653	-288	0	0	7,066	0	1,631	0	5,311	30	-239	
Total				-3,140	0	0	203,120	8,277	55,584	1,726	151,770	769	-3,131
Mean cfs				---	0	0	6,552	267	1,793	56	4,896	25	-101
Acre-feet				-3,140	0	0	402,890	16,418	110,246	3,425	301,040	1,526	-6,211

1/ Pump-in located at Mile 79.67R.

2/ Includes 42 AF delivered to DFG at O'Neill Forebay.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

May 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Apr 30	533.71	1,910,991							
1	533.05	1,902,782	-8,209	0	3,863	288	0	12	
2	532.60	1,897,192	-5,590	0	2,501	282	0	-35	
3	532.13	1,891,360	-5,832	905	3,278	326	0	-241	
4	531.51	1,883,675	-7,685	0	3,455	326	0	-93	
5	530.30	1,868,710	-14,965	0	7,335	324	0	114	
6	529.58	1,859,825	-8,885	0	4,276	315	0	112	
7	528.42	1,845,540	-14,285	0	6,969	323	0	90	
8	527.49	1,834,116	-11,424	0	5,505	348	0	93	
9	526.47	1,821,614	-12,502	0	5,942	349	0	-12	
10	525.28	1,807,066	-14,548	0	6,925	358	0	-52	
11	524.11	1,792,801	-14,265	0	6,951	351	0	110	
12	522.59	1,774,329	-18,472	0	9,243	347	0	277	
13	520.96	1,754,593	-19,736	0	9,688	335	0	73	
14	519.70	1,739,389	-15,204	0	7,461	342	0	138	
15	518.57	1,725,793	-13,596	0	6,598	351	0	94	
16	517.53	1,713,312	-12,481	482	6,332	367	0	-75	
17	516.17	1,697,038	-16,274	0	7,949	348	0	92	
18	514.90	1,681,889	-15,149	0	7,463	422	0	247	
19	513.31	1,662,990	-18,899	0	9,303	359	0	134	
20	512.71	1,655,877	-7,113	0	3,264	348	0	26	
21	511.37	1,640,029	-15,848	0	7,791	363	0	164	
22	510.28	1,627,177	-12,852	0	6,090	375	0	-14	
23	509.25	1,615,064	-12,113	0	5,677	362	0	-68	
24	508.18	1,602,514	-12,550	0	5,907	371	0	-49	
25	506.85	1,586,960	-15,554	0	7,580	362	0	100	
26	505.31	1,569,016	-17,944	0	8,858	364	0	175	
27	504.24	1,556,590	-12,426	0	5,880	362	0	-23	
28	502.91	1,541,191	-15,399	339	7,717	375	0	-11	
29	501.22	1,521,699	-19,492	0	9,501	360	0	34	
30	500.01	1,507,796	-13,903	0	6,752	359	0	102	
31	498.73	1,493,135	-14,661	0	7,066	177	0	-148	
Total			-417,856	1,726	203,120	10,639	0	1,366	
Mean cfs			---	56	6,552	343	0	44	
Acre-feet			-417,856	3,425	402,890	21,105	0	2,714	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 18,432 AF, San Benito: 2,673 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

May 2001

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	4,876	1,895	7,662	2,629	0	0	572
2	6,086	3,015	4,961	-7	0	0	560
3	6,062	3,091	6,501	1,643	1,795	1,795	647
4	8,399	5,423	6,853	23	0	0	646
5	8,094	5,077	14,549	7,599	0	0	643
6	11,300	8,305	8,481	6,719	0	0	624
7	7,825	4,825	13,824	6,618	0	0	641
8	8,404	5,362	10,919	2,207	0	0	691
9	9,235	6,246	11,785	2,990	0	0	692
10	9,500	6,178	13,736	5,956	0	0	710
11	10,311	7,076	13,787	5,015	0	0	696
12	10,790	7,513	18,334	10,603	0	0	688
13	13,318	10,121	19,217	8,888	0	0	664
14	8,813	5,658	14,799	5,728	0	0	678
15	10,265	7,038	13,088	4,248	0	0	697
16	9,850	6,582	12,560	4,824	957	957	728
17	10,382	6,160	15,767	6,838	0	0	690
18	10,684	6,485	14,803	7,241	0	0	838
19	8,987	4,717	18,453	9,887	0	0	712
20	11,098	6,781	6,474	1,312	0	0	691
21	8,566	4,260	15,453	6,948	0	0	720
22	10,319	6,046	12,079	3,569	0	0	744
23	9,566	5,215	11,261	5,503	0	0	718
24	10,517	6,163	11,717	4,748	0	0	735
25	10,738	6,588	15,035	7,496	0	0	718
26	11,264	6,999	17,569	8,297	0	0	722
27	12,583	8,380	11,663	4,757	0	0	719
28	11,609	7,386	15,307	8,423	673	673	743
29	10,938	6,760	18,845	11,163	0	0	714
30	10,126	5,941	13,393	5,662	0	0	712
31	10,535	6,344	14,015	6,206	0	0	352
Total	301,040	187,630	402,890	173,733	3,425	3,425	21,105

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

May 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 34,560 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Apr 30	327.46	20,416					
1	327.44	20,407	-9	0	0	0	-9
2	327.40	20,388	-19	0	0	0	-19
3	327.38	20,379	-9	0	0	0	-9
4	327.37	20,374	-5	0	0	0	-5
5	327.37	20,374	0	0	0	0	0
6	327.35	20,365	-9	0	0	0	-9
7	327.34	20,360	-5	0	0	0	-5
8	327.34	20,360	0	0	0	0	0
9	327.32	20,351	-9	0	0	0	-9
10	327.31	20,346	-5	0	0	0	-5
11	327.28	20,332	-14	0	0	0	-14
12	327.25	20,318	-14	0	0	0	-14
13	327.22	20,304	-14	0	0	0	-14
14	327.20	20,295	-9	0	0	0	-9
15	327.20	20,295	0	0	0	0	0
16	327.19	20,290	-5	0	0	0	-5
17	327.17	20,281	-9	0	0	0	-9
18	327.15	20,272	-9	0	0	0	-9
19	327.13	20,262	-10	0	0	0	-10
20	327.11	20,253	-9	0	0	0	-9
21	327.09	20,244	-9	0	0	0	-9
22	327.07	20,234	-10	0	0	0	-10
23	327.05	20,225	-9	0	0	0	-9
24	327.02	20,211	-14	0	0	0	-14
25	326.99	20,197	-14	0	0	0	-14
26	326.96	20,183	-14	0	0	0	-14
27	326.91	20,160	-23	0	0	0	-23
28	326.88	20,146	-14	0	0	0	-14
29	326.85	20,132	-14	0	0	0	-14
30	326.85	20,132	0	0	0	0	0
31	326.84	20,128	-4	0	0	0	-4
Total			-288	0	0	0	-288
Mean cfs			---	0	0	0	---
Acre-feet			-288	0	0	0	-288

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

May 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Apr 30	602.65	829					
1	Not Observed	832		2	0	2	
2	Not Observed	832		2	0	2	
3	Not Observed	832		2	0	2	
4	602.60	826	-3	0	0	2	
5	Not Observed	826		2	0	2	
6	Not Observed	826		2	0	2	
7	Not Observed	826		2	0	2	
8	Not Observed	826		2	0	2	
9	Not Observed	826		2	0	2	
10	Not Observed	826		2	0	2	
11	Not Observed	826		2	0	2	
12	Not Observed	826		2	0	2	
13	Not Observed	826		2	0	2	
14	Not Observed	826		2	0	2	
15	Not Observed	826		2	0	2	
16	Not Observed	826		2	0	2	
17	Not Observed	826		2	0	2	
18	Not Observed	826		2	0	2	
19	Not Observed	826		2	0	2	
20	Not Observed	826		2	0	2	
21	Not Observed	826		2	0	2	
22	Not Observed	826		2	0	2	
23	Not Observed	826		2	0	2	
24	Not Observed	826		2	0	2	
25	602.20	803	-23	0	0	1	
26	Not Observed	803		1	0	1	
27	Not Observed	803		1	0	1	
28	Not Observed	803		1	0	1	
29	Not Observed	803		1	0	1	
30	Not Observed	803		1	0	1	
31	602.20	803		1	0	1	
Total			-26	52	0	55	---
Mean cfs			---	2	0	2	---
Acre-feet			-26	103	0	109	-20

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries

(In acre-feet)				May 2001				
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries			
	Beginning and Ending				USBR	Transfer	DWR Recreation	
	No.	Structure	Mile				USBR Recreation	
2B	12	Check No. 12	66.71	16,418				
3	13	O'Neill Forebay and San Luis Reservoir Outlet Check No. 13	70.85	Department of Parks and Recreation Department of Fish & Game	42		23 19	
			70.91	San Luis Water District	1,484	1,484		
			85.08	(Floodwater Inflow)	0			
				Reach 3 Subtotal:	1,526	1,484 0	23 19	
		Dos Amigos Pumping Plant	86.73		301,040			
			89.03	San Luis Water District	7,707	7,707		
4	14		Thru 94.06					
			89.66	Pacheco Water District	1,596	1,596		
			89.67					
			89.68	Panoche Water District	6	6		
			89.70	City of Dos Palos	159	159		
		Check No. 14	95.06					
			98.15	San Luis Water District	924	924		
			Thru 104.20					
			96.15	Panoche Water District	4,466	4,466		
			102.64	(Floodwater Inflow)	0			
	15		102.64	Broadview Water District	2	2		
			105.22	Westlands Water District	16,524	16,524		
			Thru 108.64					
		Check No.15	108.50					
				Pacheco Water District Total:	1,596	1,596 0	0 0	
				Broadview Water District Total:	2	2 0	0 0	
				City of Dos Palos Total:	159	159 0	0 0	
				SLWD Reach 4 Subtotal:	8,631	8,631 0	0 0	
				Panoche Water District Total:	4,472	4,472 0	0 0	
				SLWD Total:	10,115	10,115 0	0 0	
				Westlands WD Reach 4 Subtotal:	16,524	16,524 0	0 0	

Table 19b. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure	Mile										
5	16		110.52	(Reverse flow, Kings River)	0	18,047		1					
			Thru	Westlands Water District	18,047								
			122.05	Department of Fish and Game	1								
		Check No. 16	122.07										
	17		124.18	Westlands Water District	12,859	12,859							
			Thru										
		Check No. 17	132.95										
	18		133.81	Westlands Water District	15,607	15,607							
			Thru										
			142.61										
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	14,355								
			143.16	City of Coalinga	455								
		Check No. 18	143.23										
				Westlands WD Reach 5 Subtotal:	60,868	60,868	0	0	0				
6	19		145.26	Westlands Water District	18,991	18,991							
			Thru										
			151.19										
		Check No. 19	155.64										
				Westlands WD Reach 6 Subtotal:	18,991	18,991	0	0	0				
7	20		156.34	City of Huron	92	92							
			156.40	Westlands Water District	8,663								
			Thru										
			163.69										
		Check No. 20	164.69										
	21		164.79	City of Avenal	242	242							
			167.04	Westlands Water District	4,277								
			Thru										
			171.67										
		Check No. 21	172.40		179,800								
				Reach 7 Total:	13,274	13,274	0	0	0				
				Westlands WD Total:	109,323	109,323	0	0	0				
				City of Coalinga Total:	455	455	0	0	0				
				City of Huron Total:	92	92	0	0	0				
				City of Avenal Total:	242	242	0	0	0				
				Phase I Water Total:	0	0	0	0	0				
Total San Luis Field Division Deliveries:					126,499	126,456	0	24	19				

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations

May 2001

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non-Project 2/	Dos Amigos Pumping Plant	Pools 14 & 15 3/	Pool 15	Pools 15 thru 21 4/	Flow Past Check 21	
Apr 30	29,056								
1	28,249	-807	0	2,458	88	23	1,464	1,611	321
2	28,108	-141	0	3,068	89	23	1,469	2,021	463
3	27,984	-124	0	3,056	86	87	1,545	1,875	474
4	28,198	214	0	4,234	76	28	1,438	2,384	-200
5	28,127	-71	0	4,081	117	56	1,547	2,344	-53
6	27,594	-533	0	5,697	100	43	1,574	4,516	267
7	28,084	490	0	3,945	148	53	1,498	2,072	73
8	28,098	14	0	4,237	132	44	1,579	2,365	-110
9	28,217	119	0	4,656	133	40	1,580	2,597	-246
10	27,577	-640	0	4,790	149	56	1,918	2,852	-138
11	27,375	-202	0	5,198	149	57	1,922	3,028	-144
12	27,739	364	0	5,440	153	57	1,896	2,910	-240
13	28,090	351	0	6,714	163	57	1,824	4,570	77
14	28,076	-14	0	4,443	167	92	1,727	2,678	214
15	28,425	349	0	5,175	227	73	1,863	3,035	199
16	28,556	131	0	4,966	228	74	1,866	2,875	143
17	28,623	67	0	5,234	191	75	1,671	3,328	65
18	29,174	551	0	5,386	191	75	1,673	3,140	-29
19	29,022	-152	0	4,531	119	66	1,695	2,576	-152
20	29,622	600	0	5,595	144	75	1,658	3,363	-53
21	29,349	-273	0	4,319	254	78	1,807	2,630	312
22	29,645	296	0	5,202	183	83	1,812	3,006	31
23	29,059	-586	0	4,823	184	84	1,715	2,933	-202
24	27,866	-1,193	0	5,302	237	89	1,956	3,452	-169
25	27,652	-214	0	5,414	239	86	1,960	3,161	-76
26	27,689	37	0	5,679	152	92	1,897	3,145	-374
27	28,688	999	0	6,344	203	79	2,071	3,658	171
28	28,724	36	0	5,853	191	93	1,987	3,775	211
29	28,706	-18	0	5,514	273	140	2,237	3,081	208
30	27,976	-730	0	5,105	248	141	2,186	2,872	-26
31	27,432	-544	0	5,311	223	135	2,433	2,797	2
Total		-1,624	0	151,770	5,236	2,254	55,468	90,650	1,019
Mean cfs		---	0	4,851	169	73	1,789	2,924	33
Acre-feet		-1,624	0	301,040	10,387	4,471	110,020	179,800	2,014

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water (0 AF @ Lat.7L) and Flood Water (0 AF) is included in the gain or loss.

3/ Includes 1,595 AF AG & 1 AF M&I to Pacheco W.D. and 159 AF to the City of Dos Palos.

4/ Includes 92 AF to the City of Huron, 242 AF to the City of Avenal, 455 AF to the City of Coalinga, 0 AF Phase I Water, 1 AF to F&G @ WWD Lateral 4L, and 1 AF to Broadview W.D.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

May 2001

Date	Coastal Aqueduct					California Aqueduct				
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant	
23	1	253	253	55	51	55	2,576	2,685	2,527	2,495
	2	317	317	79	74	78	3,749	3,430	3,307	3,207
	3	345	345	74	69	74	3,602	3,626	3,471	3,331
	4	409	409	78	74	76	4,514	4,107	3,991	3,889
	5	370	370	66	61	66	4,291	4,241	4,118	4,050
	6	314	314	81	77	81	7,798	7,582	7,478	7,440
	7	345	345	70	66	69	4,233	4,118	3,951	3,767
	8	339	339	85	80	83	4,815	4,592	4,381	4,262
	9	401	401	84	80	84	4,781	4,545	4,344	4,158
	10	387	387	80	75	78	5,012	4,706	4,436	4,085
	11	414	414	79	70	78	5,336	5,028	4,560	4,727
	12	444	444	43	40	43	5,133	5,079	4,871	4,740
	13	334	334	85	80	81	7,901	7,614	7,478	7,555
	14	352	352	63	58	64	5,111	5,129	4,914	4,679
	15	391	391	63	59	64	5,259	5,095	4,901	4,851
	16	375	375	68	63	67	5,131	4,798	4,573	4,464
	17	430	430	74	70	73	5,329	5,120	4,823	4,697
	18	386	386	94	89	90	5,172	5,013	4,773	4,671
	19	315	315	63	60	63	4,775	4,371	4,099	3,994
	20	353	353	86	81	83	6,298	6,039	5,985	5,801
	21	365	365	67	62	65	4,938	4,704	4,510	4,472
	22	458	458	72	68	71	4,766	4,484	4,257	4,233
	23	445	445	75	73	74	5,324	5,043	4,471	4,512
	24	402	402	76	72	75	5,574	5,099	4,829	4,778
	25	474	474	83	78	83	5,623	5,134	4,922	4,746
	26	482	482	76	71	74	5,204	4,686	4,495	4,332
	27	481	481	79	78	78	6,273	6,089	5,942	5,801
	28	387	387	71	65	70	6,245	6,091	5,879	5,801
	29	493	493	71	67	71	5,246	4,872	4,661	4,569
	30	481	481	97	92	93	4,760	4,266	4,056	3,878
	31	518	518	130	123	122	4,644	3,906	3,707	3,637
Total	12,260	12,260	2,367	2,226	2,326	159,413	151,292	144,710	141,622	

Table 22a. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

May 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	USBR	Kern Water Bank Return	Local 1/	MWD Ent.		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		179,800							
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	836	836		2,250				
				County of Kings TL - A	0							
				TLBWSD TL-A	0							
				175.18 DRWD - 1	551							
			180.64	177.54 DRWD - 1B	158	551 158 115 118		2,250				
				180.64 TLBWSD - C	0							
				180.65 DRWD - 1A	115							
				182.99 DRWD - 2	2,368							
				183.00 Tulare Lake Basin WSD TL - B	0							
				184.63 Coastal Branch	12,260							
8D			184.78	Dudley Ridge Water Dist. DRWD - 3	2,094	2,094	0	2,250	0	0		
				Dudley Ridge Reach 8D Total:	5,286							
8D				Tulare Lake Basin WSD Total:	0							
Check No. 22			184.82									
189.69			Kern County Water Agency Lost Hills Water Dist. - 1	4,704	3,328 736 36 398		1,376 273 13 148					
			191.18 Kern County Water Agency Lost Hills Water Dist. - 2	1,009								
			194.22 Kern County Water Agency Lost Hills Water Dist. - 3	49								
			196.40 Kern County Water Agency Berrenda Mesa - 2	0								
			196.75 Kern County Water Agency Lost Hills Water Dist. - 4	546								
			K.C.W.A. Reach 9 Subtotal:	6,308								
Check No. 23			197.05									
9	23		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	648	474		174				
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	986							
				204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0							
				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	0							
			Check No. 24	207.94								
			209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	2,265	720		266				
				209.78 Kern National Wildlife Refuge USBR BV-1B	294							
				209.80 Kern County Water Agency Buena Vista WSD 1B	0							
				KCWA Semitropic WSD	572							
10A	25		209.80	KCWA Semitropic WSD Penstocks	842	352	294	1,913				
				USBR Total:	294							
				K.C.W.A. Reach 10A Subtotal:	5,313							

1/ Return of water that the contractor had pumped into the aqueduct.

Table 22b. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Entitlement	Federal Wheeling	Purchase Pool A	Local 2/	MWD Ent.			
	No.	Structure	Mile										
11B	25	210.75	Kern County Water Agency Belridge - 2	0	1,609	7			39	8,735			
		214.11	Kern County Water Agency Belridge - 3	46									
		216.62	Kern County Water Agency Belridge - 4	0									
		217.13	Kern County Water Agency Belridge - 5	10,344									
			Kern County Water Agency Belridge - 5D	78		78							
		Check No. 25	217.79										
			K.C.W.A. Reach 11B Subtotal:	10,468	1,694	0	0	8,774	0				
12D	26	219.58	Kern County Water Agency Belridge - 6	0									
		Check No. 26	224.92										
12E	27	230.37	Kern County Water Agency Buena Vista - 6	0									
		Check No. 27	231.73										
	28	235.75	Kern County Water Agency Buena Vista - 2	0									
		238.04	Kern County WA CVC	0									
			DRWD CVC	0									
			Tulare Co.	0									
			Lower Tule River	0									
			Fresno Co.	0									
			Pixley ID	0									
			Hacienda										
			DWR Wells	0									
	Check No. 28	238.11											
			1/ Arvin Edison Total:	0	0	0	0	0	0	0			
			Reach 12E Subtotal:	0	0	0	0	0	0	0			
13B	29	238.19	Kern Water Bank Inflow	0	298								
			Kern Water Bank Outflow	0									
		241.02	Kern River Intertie (inflow)	0									
		242.85	KCWA Buena Vista WSD - 7	0									
			KCWA Buena Vista WSD - 5	0									
		243.09	Kern County Water Agency Buena Vista - 3	298									
		Check No. 29	244.54	Buena Vista WSD									
14A	30	249.85	Kern County Water Agency Buena Vista - 4	0	167								
		Buena Vista Pumping Plant	250.99										
			K.C.W.A. Reach 13B Subtotal:	298									
		254.47	Kern County Water Agency West Kern - 2	0									
		256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	295						128			

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Return of water that the contractor had pumped into the aqueduct.

Table 22c. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Inter-ruptible Ent.	Exchange	Local 1/	MWD Ent.		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14			177						
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	313				136			
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	1,574				685			
		Check No. 32	261.72									
				KCWA Reach 14A Subtotal:	2,182	1,233	0	0	949	0		
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	3,309	1,868			1,441			
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	524		296		228			
	Check No. 33	267.36										
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	2,178	1,230			948			
		Check No. 34	271.27									
				Reach 14B Total:	6,011	3,394	0	0	2,617	0		
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	3,308	1,761			1,547			
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	1,348				587			
				Reach 14C Total:	4,656	761	0	0	2,134	0		
15A	36	Teerink Pumping Plant	278.13		151,292	2,522						
			279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	730		412		318			
		Chrismar Pumping Plant	280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	2,803	1,583			1,220			
				Reach 15-A Total:	3,533		1,995	0	0	1,538	0	
16A	37	Chrismar Pumping Plant	280.36		144,710							
			282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0							
		Check No. 37	283.95									
			285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	21	21						
	38		286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	112	62			50			
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0							
		Check No. 38	287.09									
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	117	66			51			
		Check No. 39	290.21									
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	1,228	693			535			
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	753	623			130			
				Kern County Water Agency Tehachapi Cummings CWD	0							
				K.C.W.A. Reach 16A Subtotal:	2,231	1,465	0	0	766	0		
17E	Edmonston Pumping Plant	293.45			141,622							

1/ Return of water that the contractor had pumped into the aqueduct.

Table 23. Governor Edmund G. Brown California Aqueduct
 San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

May 2001

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Entitlement	Inter-ruptible Ent.	MWD Ent.	Local 1/	Purchase Pool B	
	No.	Structure	Mile							
31A	C-1	Coastal Branch Control	0.02		12,260					
		Las Perillas Pumping Plant	1.16		12,260					
	C-2		3.79	Green Valley Water District	0					
		Badger Hill Pumping Plant	4.27		12,260					
	C-3	Coastal Check No. 3	7.21							
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	10	10				
		Coastal Check No. 4	9.34							
	C-5	Coastal Check No. 5	12.20							
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	209	151			58	
			14.83	Kern County Water Agency Berrenda Mesa - DD	0					
				Kern County Water Agency Berrenda Mesa - PO	9,677	6,995			2,682	
		Devil's Den Pumping Plant	14.86		2,361					
				K.C.W.A. Reach 31A Subtotal:	9,886	7,146	0	2,740	0	
				K.C.W.A. Total:	50,886	25,791	0	25,095		
33A	C-7	Bluestone Pumping Plant	19.05		2,226					
	C-8	Polonio Pass Pumping Plant	26.54		2,326					
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant						
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,926	1,926				
		Tank Site 2	58.63	Central Coast:	0					
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	378	378				
		Energy Dissipater	78.12							
35	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0					
				CCWA Total:	2,304	2,304	0	0	0	
		Guadalupe T.O.	102.70	SBCFC & WCD	0					
		Santa Maria T.O.	107.43	SBCFC & WCD	0					
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0					
38				SBCFC & WCD Total:	0	0	0	0	0	
		Tank Site 5	115.42							

1/ Return of water that the contractor had pumped into the aqueduct.

Table 24. Southern Field Division Plant Data

(in acre-feet)

May 2001

Date	West Branch					East Branch								Devil Canyon Powerplant Generation
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant				
		Generation	Leakage	Generation	Pumpback	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume		
1	1,226	1,612	0	5,844	2,473	1,200	0	0	666	709	0	0	1,652	
2	1,586	1,514	0	3,609	2,415	1,748	0	0	1,538	1,706	0	0	1,783	
3	1,594	1,991	0	4,202	3,096	1,723	0	0	1,541	1,417	0	0	1,536	
4	2,288	2,655	0	5,048	3,657	1,540	0	0	1,375	1,561	0	0	1,970	
5	2,370	2,649	0	2,704	3,875	1,508	0	0	1,286	1,497	0	0	1,874	
6	3,838	2,685	0	3,400	0	3,613	0	0	3,319	2,988	0	0	1,503	
7	2,352	2,712	0	9,571	1,774	1,421	0	0	1,315	1,291	0	0	1,958	
8	2,561	2,395	0	10,896	5,864	1,680	0	0	1,474	1,245	0	0	1,989	
9	2,795	2,364	0	9,779	7,324	1,420	0	40	1,495	1,677	0	0	1,902	
10	2,354	2,792	0	9,711	5,604	1,798	0	0	1,494	1,547	0	0	1,907	
11	2,683	2,975	0	7,447	6,893	2,029	0	0	1,765	1,804	0	0	2,019	
12	2,440	1,928	0	5,213	6,453	2,223	0	38	1,751	1,684	0	0	1,862	
13	3,225	2,725	0	3,861	4,386	3,644	0	650	3,897	3,561	0	0	1,949	
14	1,859	2,370	0	6,066	1,958	2,457	0	271	2,571	3,220	0	0	2,326	
15	1,959	1,799	0	4,170	2,950	2,416	0	409	2,540	2,658	0	0	1,983	
16	1,811	1,906	0	8,666	2,814	2,221	0	407	2,293	2,031	0	0	1,946	
17	1,951	2,089	0	7,110	4,034	2,359	0	292	2,264	2,350	0	0	1,815	
18	1,997	2,056	0	7,439	4,021	2,249	0	359	2,552	2,330	0	0	1,843	
19	1,963	1,822	0	1,250	4,114	1,887	0	198	1,586	1,966	0	0	1,882	
20	2,559	1,777	0	5,266	3,353	3,198	0	0	2,876	2,728	0	0	2,130	
21	2,172	2,263	0	6,552	4,467	2,201	0	70	1,755	1,798	0	0	1,833	
22	2,196	1,967	0	10,550	5,299	1,901	0	58	1,549	1,479	0	0	2,027	
23	1,966	2,216	0	11,241	6,353	2,259	0	232	2,273	2,439	0	0	2,117	
24	1,966	2,480	0	6,105	6,068	2,495	0	268	2,461	2,486	0	0	2,004	
25	2,020	2,645	0	9,020	2,787	2,438	0	265	2,400	2,407	0	0	2,043	
26	2,098	2,048	0	3,433	5,384	2,122	0	80	1,766	1,978	0	0	1,865	
27	3,836	2,508	0	723	5,742	1,953	0	0	1,944	1,826	0	0	1,970	
28	2,879	2,330	0	2,759	1,667	2,920	0	0	2,362	2,364	0	0	1,908	
29	2,035	2,342	0	5,085	123	2,231	0	205	1,951	1,728	0	0	1,982	
30	1,334	1,611	0	7,620	3,263	2,296	0	174	2,332	2,285	0	0	2,095	
31	1,525	1,678	0	11,527	4,852	1,815	0	219	1,908	2,100	0	0	1,887	
Total	69,438	68,904	0	195,867	123,063	66,965	0	4,235	62,299	62,860	0	0	59,560	

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

May 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) And Gains (+)
				Project		Natural	Project		Natural	
				Castaic Powerplant Pumpback	Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Recreation Deliveries	To Piru Creek	
Apr 30	2573.51	164,169								
1	2572.21	162,534	-1,635	2,473	1,612	180	5,844	0	50	-6
2	2572.48	162,873	339	2,415	1,514	172	3,609	0	50	-103
3	2573.19	163,766	893	3,096	1,991	151	4,202	0	50	-93
4	2574.20	165,042	1,276	3,657	2,655	132	5,048	0	50	-70
5	2577.17	168,832	3,790	3,875	2,649	122	2,704	0	50	-102
6	2576.72	168,254	-578	0	2,685	117	3,400	0	50	70
7	2572.79	163,262	-4,992	1,774	2,712	113	9,571	0	50	30
8	2570.62	160,548	-2,714	5,864	2,395	110	10,896	0	50	-137
9	2570.57	160,486	-62	7,324	2,364	106	9,779	1	50	-26
10	2569.45	159,097	-1,389	5,604	2,792	101	9,711	0	50	-125
11	2571.41	161,533	2,436	6,893	2,975	94	7,447	0	50	-29
12	2573.94	164,712	3,179	6,453	1,928	90	5,213	0	50	-29
13	2576.50	167,972	3,260	4,386	2,725	86	3,861	0	50	-26
14	2575.08	166,159	-1,813	1,958	2,370	82	6,066	0	50	-107
15	2575.49	166,681	522	2,950	1,799	79	4,170	0	50	-86
16	2572.35	162,709	-3,972	2,814	1,906	75	8,666	0	50	-51
17	2571.30	161,395	-1,314	4,034	2,089	73	7,110	0	50	-350
18	2570.15	159,964	-1,431	4,021	2,056	71	7,439	0	50	-90
19	2573.83	164,573	4,609	4,114	1,822	68	1,250	0	49	-96
20	2573.76	164,485	-88	3,353	1,777	64	5,266	1	49	34
21	2573.89	164,649	164	4,467	2,263	60	6,552	0	49	-25
22	2571.37	161,483	-3,166	5,299	1,967	58	10,550	0	49	109
23	2568.53	157,962	-3,521	6,353	2,216	55	11,241	0	49	-855
24	2570.08	159,865	1,903	6,068	2,480	53	6,105	0	49	-544
25	2567.05	156,147	-3,718	2,787	2,645	50	9,020	0	49	-131
26	2570.31	160,163	4,016	5,384	2,048	48	3,433	0	49	18
27	2576.20	167,588	7,425	5,742	2,508	49	723	0	49	-102
28	2577.19	168,858	1,270	1,667	2,330	49	2,759	0	49	32
29	2575.10	166,184	-2,674	123	2,342	47	5,085	0	49	-52
30	2572.79	163,262	-2,922	3,263	1,611	45	7,620	0	49	-172
31	2568.66	158,122	-5,140	4,852	1,678	44	11,527	0	49	-138
Total			-6,047	123,063	68,904	2,644	195,867	2	1,537	-3,252

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,746 ac-ft

May 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake		
							Natural	Project	
Apr 30	1518.43	22,576							
1	1517.73	22,283	-293	5,844	13	2,473	13	3,661	-3
2	1515.56	21,388	-895	3,609	12	2,415	12	2,087	-2
3	1518.04	22,413	1,025	4,202	11	3,096	11	0	-81
4	1521.23	23,767	1,354	5,048	10	3,657	10	0	-37
5	1504.05	16,964	-6,803	2,704	10	3,875	10	5,609	-23
6	1512.92	20,325	3,361	3,400	8	0	8	0	-39
7	1519.55	23,049	2,724	9,571	8	1,774	8	5,058	-15
8	1522.99	24,531	1,482	10,896	7	5,864	7	3,553	3
9	1520.35	23,390	-1,141	9,779	6	7,324	6	3,594	-2
10	1529.42	27,413	4,023	9,711	6	5,604	6	0	-84
11	1522.75	24,426	-2,987	7,447	6	6,893	6	3,540	-1
12	1513.41	20,520	-3,906	5,213	6	6,453	6	2,665	-1
13	1512.10	20,001	-519	3,861	6	4,386	6	0	6
14	1513.76	20,660	659	6,066	6	1,958	6	3,447	-2
15	1509.42	18,962	-1,698	4,170	5	2,950	5	2,917	-1
16	1516.29	21,687	2,725	8,666	5	2,814	5	3,123	-4
17	1516.81	21,901	214	7,110	5	4,034	5	2,861	-1
18	1517.52	22,196	295	7,439	5	4,021	5	3,111	-12
19	1510.58	19,408	-2,788	1,250	5	4,114	5	0	76
20	1515.53	21,376	1,968	5,266	4	3,353	4	0	55
21	1520.92	23,634	2,258	6,552	4	4,467	4	0	173
22	1524.09	25,013	1,379	10,550	3	5,299	3	3,945	73
23	1527.09	26,351	1,338	11,241	2	6,353	2	3,747	197
24	1528.86	27,152	801	6,105	2	6,068	2	0	764
25	1527.77	26,659	-493	9,020	2	2,787	2	5,769	-957
26	1522.37	24,261	-2,398	3,433	2	5,384	2	0	-447
27	1510.22	19,269	-4,992	723	2	5,742	2	0	27
28	1512.77	20,266	997	2,759	2	1,667	2	0	-95
29	1516.51	21,778	1,512	5,085	1	123	1	3,446	-4
30	1519.00	22,816	1,038	7,620	0	3,263	0	3,320	1
31	1524.65	25,260	2,444	11,527	0	4,852	0	4,233	2
Total				2,684	195,867	164	123,063	164	69,686
									-434

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

May 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Apr 30	1483.44	257,591								
1	1484.44	259,556	1,965	13	3,661	12	1,716	24	19	
2	1484.77	260,207	651	12	2,087	11	1,369	24	-66	
3	1484.11	258,907	-1,300	11	0	9	1,187	20	-113	
4	1483.48	257,670	-1,237	10	0	9	1,281	20	45	
5	1485.59	261,808	4,138	10	5,609	9	1,368	20	-102	
6	1484.95	260,562	-1,246	8	0	8	2,468	16	1,222	
7	1486.81	264,246	3,684	8	5,058	7	1,358	10	-21	
8	1487.80	266,219	1,973	7	3,553	6	1,582	10	-1	
9	1488.74	268,099	1,880	6	3,594	5	1,720	10	5	
10	1487.90	266,419	-1,680	6	0	5	1,584	10	-97	
11	1488.84	268,300	1,881	6	3,540	5	1,547	10	-113	
12	1488.75	268,111	-189	6	2,665	6	1,398	10	-1,458	
13	1488.73	268,062	-49	6	0	6	1,390	10	1,339	
14	1489.80	270,229	2,167	6	3,447	6	1,453	10	171	
15	1490.55	271,737	1,508	5	2,917	6	1,304	10	-106	
16	1491.39	273,434	1,697	5	3,123	5	1,281	10	-145	
17	1492.26	275,197	1,763	5	2,861	5	1,553	8	453	
18	1493.10	276,907	1,710	5	3,111	5	1,342	6	-63	
19	1492.47	275,624	-1,283	5	0	6	1,223	6	-65	
20	1491.90	274,467	-1,157	4	0	6	574	6	-587	
21	1491.24	273,130	-1,337	4	0	5	1,337	6	-3	
22	1492.30	275,279	2,149	3	3,945	4	1,346	6	-451	
23	1493.91	278,545	3,266	2	3,747	4	1,353	6	872	
24	1493.28	277,274	-1,271	2	0	3	1,292	6	22	
25	1495.68	282,197	4,923	2	5,769	3	1,201	6	356	
26	1495.08	280,961	-1,236	2	0	2	1,159	6	-75	
27	1494.57	279,914	-1,047	2	0	3	984	6	-62	
28	1494.09	278,930	-984	2	0	3	1,036	6	53	
29	1495.10	281,002	2,072	1	3,446	3	1,195	5	-178	
30	1496.18	283,229	2,227	0	3,320	2	1,261	5	171	
31	1497.59	286,151	2,922	0	4,233	1	1,202	5	-105	
Total				28,560	164	69,686	170	42,064	313	917

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

May 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.	Structure	Mile	Entitlement	Rec.	Local	Purchase Pool B	CLWA T1
	No.	Structure								
29A	42	Oso Pumping Plant	1.49			69,438				
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	2	2			
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub					
29G		Warne Power Plant	14.07			68,904				
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	2	28	28			1,443
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0					
		Castaic Power Plant	25.82	(123,063 AF pumpback)	195,867					
29J	W4	Elderberry Forebay				38,196	2,243			
		Forebay Dam	28.12							
		Castaic Lake		Calif. State Park Castaic Lake Recreation	28					
30 1/	W5	Castaic Dam	31.47			38,196	154			1,443
		Castaic Lake Outlet	31.55	MWD - 78"	0					
				MWD - 132"	38,196					
				Castaic Lake WA - T1	1,443					
				Castaic Lake WA	2,243					
				United Water Conservation Dist.	0					
				MWD - Ventura County FCD	154					
				LA Co. Parks & Recreation	0					
				Releases to Lagoon	313					
				Reach 30 Subtotal:	42,064	40,593	28	0	0	1,443
	W6	Castaic Lagoon		Recreation to Lagoon	73	73				
		Castaic Lagoon Outlet	31.87		283					

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

Table 29. Silverwood Lake

Daily Operation
(in acre-feet except as noted)

Capacity: 74,970 ac-ft

May 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Project			Del. To Mojave W.A.	Natural To Mojave River		
							Delivered to CLAWA	Rec.	San Bernardino Tunnel				
Apr 30	3349.39	69,603											
1	3348.28	68,567	-1,036	709	0	24	2	1	1,652	0	0	-114	
2	3348.18	68,474	-93	1,706	0	23	3	0	1,783	0	1	-35	
3	3348.22	68,512	38	1,417	0	21	3	0	1,536	0	0	139	
4	3347.60	67,937	-575	1,561	0	19	3	1	1,970	0	0	-181	
5	3347.25	67,613	-324	1,497	0	18	0	0	1,874	0	1	36	
6	3348.89	69,136	1,523	2,988	0	17	0	0	1,503	0	0	21	
7	3348.27	68,558	-578	1,291	0	15	18	1	1,958	0	0	93	
8	3347.49	67,835	-723	1,245	0	14	4	0	1,989	0	1	12	
9	3347.26	67,623	-212	1,677	0	14	0	0	1,902	0	0	-1	
10	3346.74	67,144	-479	1,547	0	13	8	1	1,907	0	0	-123	
11	3346.60	67,015	-129	1,804	0	12	4	0	2,019	0	0	78	
12	3346.44	66,868	-147	1,684	0	13	0	0	1,862	0	1	19	
13	3348.22	68,512	1,644	3,561	0	13	0	1	1,949	0	0	20	
14	3349.14	69,369	857	3,220	0	11	11	0	2,326	0	1	-36	
15	3349.81	69,998	629	2,658	0	11	3	0	1,983	0	0	-54	
16	3350.00	70,176	178	2,031	0	10	2	1	1,946	0	1	87	
17	3350.85	70,979	803	2,350	0	10	3	0	1,815	0	0	261	
18	3351.35	71,454	475	2,330	0	10	3	0	1,843	0	1	-18	
19	3351.37	71,473	19	1,966	0	9	4	1	1,882	0	0	-69	
20	3351.97	72,039	566	2,728	0	8	4	0	2,130	0	1	-35	
21	3351.69	71,777	-262	1,798	0	8	4	0	1,833	0	0	-231	
22	3351.30	71,406	-371	1,479	0	7	3	1	2,027	0	1	175	
23	3351.40	71,501	95	2,439	0	7	5	0	2,117	0	0	-229	
24	3352.16	72,226	725	2,486	0	6	6	0	2,004	0	1	244	
25	3352.46	72,513	287	2,407	0	6	5	1	2,043	0	0	-77	
26	3352.63	72,676	163	1,978	0	5	6	0	1,865	0	1	52	
27	3352.29	72,350	-326	1,826	0	5	6	0	1,970	0	0	-181	
28	3352.90	72,935	585	2,364	0	5	5	1	1,908	0	1	131	
29	3352.69	72,734	-201	1,728	0	5	6	0	1,982	0	0	54	
30	3352.84	72,878	144	2,285	0	4	6	0	2,095	0	1	-43	
31	3353.00	73,032	154	2,100	0	4	6	0	1,887	0	0	-57	
Total				3,429	62,860	0	347	133	10	59,560	0	13	-62
1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.												649	

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

May 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Apr 30	1581.57	112,430				
1	1581.60	112,496	66		9	
2	1581.53	112,343	-153		9	
3	1581.52	112,321	-22		146	
4	1581.53	112,343	22		117	
5	1581.53	112,343	0		206	
6	1581.53	112,343	0		0	
7	1581.63	112,562	219		82	
8	1581.66	112,628	66		23	
9	1581.74	112,803	175		9	
10	1581.79	112,913	110		9	
11	1581.84	113,022	109		10	
12	1581.81	112,957	-65		124	
13	1581.80	112,935	-22		9	
14	1581.85	113,044	109		26	
15	1581.92	113,198	154		10	
16	1581.80	112,935	-263		10	
17	1581.80	112,935	0		10	
18	1581.92	113,198	263		10	
19	1581.87	113,088	-110		10	
20	1582.37	114,168	1,080		10	
21	1581.87	113,088	-1,080		10	
22	1581.90	113,154	66		10	
23	1581.99	113,352	198		10	
24	1582.01	113,396	44		10	
25	1582.03	113,440	44		10	
26	1582.02	113,418	-22		10	
27	1581.90	113,154	-264		10	
28	1581.90	113,154	0		10	
29	1582.00	113,374	220		10	
30	1582.07	113,528	154		9	
31	1582.05	113,484	-44		10	
Total			1,054	3,878	948	-1,876

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

May 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Entitle-ment	Rec.	Transfer 1/	Purchase Pool B	Purchase Pool A		
	No.	Structure										
17E	40	Edmonston Pumping Plant	293.45		141,622							
	41		298.65	Kern County Water Agency Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 4,235 AF flow down Cottonwood Chute)	66,965	106	19	129	547	352		
			308.05	Antelope Valley-East Kern WA	106							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0	2,331		129	547	352		
			313.50	AVEK 245th Street West	0							
	Check No. 44		314.81									
	45		314.93	AVEK 235th Street West	19	2,456	0	129	547	352		
			315.57	AVEK 225th Street West	0							
	Check No. 45		319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont	3,359	2,456	0	129	547	352		
		Check No. 46	323.84									
				Reach 19 Total:	3,484							
20A	47	Check No. 47	326.77			82		105	577	9		
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	82							
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed							
		Check No. 48	330.82									
	49	Check No. 49	335.93									
20B	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	0	2,665		105	577	9		
				Antelope Valley-East Kern WA	2,665							
			339.68	Antelope Valley-East Kern WA	105							
	Check No. 50		341.51									
	51	Check No. 51	342.07									
21	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use	11		162	414	414		
		Check No. 52	343.74									
	53		346.98	PWD Palmdale	577							
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant	9							
		Check No. 53	348.17									
22A	54	Check No. 54	350.25			11		162	414	414		
	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
			354.97	Littlerock Creek I.D.	0							
	57	Check No. 57	356.93									
	58		357.60	Antelope Valley-East Kern WA	11	11		162	414	414		
			357.72	Antelope Valley-East Kern WA 96th Street East	162							
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	414							

1/ AVEK transferred this water to Mojave Water Agency.

Table 31b. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

May 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Recreation	Ex-change	Purchase Pool B	Local		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		62,299	655	10	10	10	10		
	59	Check No. 59	366.09									
	60	Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63	Check No. 63	389.20	Mojave Water Agency Mojave River	0							
	64	Check No. 64	395.10									
	65	Check No. 65	400.32	Mojave Water Agency Morongo 24" and 42"	655	655	10	10	10	10		
	66		401.10									
		Check No. 66	403.41		0							
23		Mojave Siphon	405.48	Las Flores Ranch	649					649		
		Mojave Siphon Powerplant	405.65		62,860							
24	67	Silverwood Lake	407.65	Crestline Lake Arrowhead Water Agency	132					132		
				Calif. State Park Silverwood Agency (Rec.)	10							
25		San Bernardino Tunnel	411.46		59,560							
				San Gorgonio Pass Water Agency	0							
		Devil Canyon Powerplant	412.73		59,560							
26A	68	Devil Canyon Afterbay Control Structures	412.88	MWD-SC Rialto	23,275	23,275	10	10	10	10		
				Desert Water Agency (MWD Wheeling Exchange)	1,905							
				San Gabriel Valley Water District	0							
				Coachella Valley WD (MWD Wheeling Exchange)	1,155							
				San Bernardino Valley MWD 24" and 72"	854							
				San Bernardino Valley MWD 48"	208							
				MWD (SBVMWD Exchange)	0							
28G			425.46									
28H			433.06	MWD-SC Box Springs	7,592	7,592	10	10	10	10		
			440.05	MWD-SC Perris Bypass Pipeline	21,365							
28J	69	Lake Perris	442.00	MWD-SC 18"	276	21,365	10	10	10	10		
			443.44	MWD-SC 54"	215							
				MWD-SC 78"	416							
				Calif. State Park Lake Perris Recreation	41							
				MWD Total:	95,992	94,549	0	0	0	1,443		

Table 32. Water Quality At Selected SWP Locations

May 2001

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	37	134	64	69	74	74	74	74	70
Antimony	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	mg/l	<0.001	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	<0.01	0.06	0.12	0.15	0.18	0.18	0.18	0.18	0.13
Calcium	mg/l	8	21	20	25	20	20	20	20	19
Carbon - Dissolved Organic	mg/l as C	NR	5	5	3	3	3	3	3	4
Carbon - Total Organic	mg/l as C	NR	6	5	NR	NR	NR	3	4	4
Chloride	mg/l	1	32	45	60	64	62	64	64	48
Chromium	mg/l	<0.005	0.015	0.008	<0.005	0.007	0.006	0.007	<0.005	0.005
Copper	mg/l	0.001	0.004	0.003	0.002	0.003	0.003	0.002	0.004	0.003
Fluoride	mg/l	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hardness	mg/l as CaCO ₃	32	135	93	116	99	99	99	99	89
Iron	mg/l	0.008	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	3	20	10.53	13	12	12	12	12	10
Manganese	mg/l	<0.005	0.026	0.026	<0.005	<0.005	<0.005	<0.005	<0.005	0.011
Nitrate + Nitrite	mg/l as N	0.01	0.03	0.71	NR	NR	0.31	NR	0.59	0.45
Phosphorus-Ortho	mg/l as P	<0.01	0.07	0.07	NR	NR	0.04	NR	0.07	0.06
Phosphorus-Total	mg/l	<0.01	0.15	0.09	NR	NR	0.06	NR	0.12	0.11
Selenium	mg/l	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	<0.001
Sodium	mg/l	3	40	38.41	47	47	46	45	47	39
Specific Conductance	µS/cm	76	440	384	478	447	441	443	449	386
Sulfate	mg/l	1	48	51	65	40	40	41	40	42
Total Dissolved Solids	mg/l	48	244	212	261	242	242	239	239.5	210
Turbidity	NTU	4	39.7	9.3	8.2	3.3	4.3	5.1	8.45	3
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

May 2001

Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in millSiemens/cm									Cl in mg/l		
	(Antioch) Daily Mean		Net Delta Outflow Index		Rio Vista	Antioch	Chippis island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Mean Daily	Monthly Average	md	md				md	14dm	md	14dm					
	Hi	Half													md	
38	1	2.26	0.70	11,699	11,699	7,430	0.46	2.14	0.28	0.27	0.26	0.27	0.44	0.57	0.43	38
	2	1.92	0.42	11,644	11,672	7,589	0.40	1.55	0.25	0.27	0.26	0.26	0.44	0.67	0.43	42
	3	1.79	0.24	11,735	11,693	6,817	0.34	1.52	0.23	0.27	0.26	0.26	0.43	0.60	0.43	39
	4	N.R.	N.R.	10,816	11,473	6,875	0.49	0.00	0.25	0.27	0.27	0.26	0.43	0.55	0.44	41
	5	N.R.	N.R.	10,693	11,317	7,105	0.00	0.00	0.27	0.27	0.27	0.26	0.42	0.54	0.43	39
	6	N.R.	N.R.	10,887	11,246	6,824	0.00	0.00	0.30	0.27	0.28	0.26	0.42	0.56	0.42	39
	7	1.85	N.R.	10,647	11,160	6,747	0.64	0.00	0.31	0.28	0.28	0.26	0.47	0.56	0.42	40
	8	2.97	0.86	10,629	11,094	7,000	1.08	4.10	0.35	0.28	0.29	0.27	0.45	0.56	0.42	39
	9	3.21	1.18	10,702	11,050	6,412	1.28	5.11	0.43	0.30	0.30	0.27	0.41	0.57	0.40	40
	10	3.29	1.27	10,142	10,959	6,288	1.24	5.30	0.49	0.31	0.31	0.27	0.44	0.56	0.39	38
	11	3.29	1.46	9,593	10,835	6,055	1.41	5.76	0.51	0.32	0.33	0.28	0.44	0.53	0.38	42
	12	3.29	1.53	9,422	10,717	5,846	1.54	6.47	0.64	0.35	0.35	0.28	0.44	0.45	0.38	43
	13	2.75	1.27	9,209	10,601	6,763	1.55	5.22	0.56	0.37	0.31	0.29	0.44	0.47	0.39	43
	14	2.16	1.00	10,248	10,576	6,724	1.31	4.28	0.43	0.38	0.30	0.29	0.43	0.54	0.40	44
	15	2.07	0.78	10,513	10,572	6,655	1.53	3.83	0.36	0.38	0.30	0.29	0.44	0.56	0.42	45
	16	2.07	0.70	10,246	10,552	6,693	0.65	3.70	0.34	0.39	0.30	0.30	0.46	0.53	0.43	44
	17	2.24	0.78	10,336	10,539	7,119	0.78	4.05	0.32	0.40	0.30	0.30	0.46	0.50	0.43	45
	18	2.45	0.84	10,839	10,555	7,824	0.83	4.34	0.30	0.40	0.30	0.30	0.45	0.54	0.43	44
	19	2.70	1.02	11,593	10,610	8,137	0.88	4.58	0.32	0.40	0.30	0.30	0.45	0.55	0.43	48
	20	2.95	1.14	11,639	10,662	8,627	0.93	4.81	0.32	0.41	0.31	0.31	0.43	0.54	0.42	46
	21	3.19	1.28	11,786	10,715	8,692	1.01	4.93	0.35	0.41	0.31	0.31	0.42	0.54	0.42	47
	22	3.52	1.46	11,236	10,739	8,456	1.16	5.56	0.40	0.41	0.33	0.31	0.42	0.51	0.42	48
	23	3.55	1.44	10,481	10,728	8,228	1.17	5.57	0.41	0.41	0.33	0.31	0.42	0.53	0.41	42
	24	3.55	1.36	9,793	10,689	7,805	1.20	5.27	0.43	0.41	0.33	0.31	0.42	0.52	0.41	43
	25	3.63	1.49	9,039	10,623	6,194	1.29	5.45	0.48	0.40	0.34	0.32	0.42	0.47	0.42	44
	26	3.68	1.55	8,441	10,539	3,546	1.38	5.77	0.58	0.40	0.36	0.32	0.41	0.45	0.41	43
	27	3.61	1.66	6,713	10,397	4,614	1.45	6.15	0.77	0.42	0.37	0.32	0.42	0.48	0.41	43
	28	3.38	1.53	8,318	10,323	5,664	1.33	5.52	0.68	0.43	0.35	0.32	0.42	0.52	0.46	42
	29	2.72	1.11	10,362	10,324	7,055	1.01	4.22	0.44	0.44	0.31	0.32	0.42	0.58	0.48	42
	30	2.42	0.90	11,375	10,359	10,000	0.89	3.90	0.37	0.44	0.30	0.32	0.43	0.60	0.51	46
	31	2.42	0.86	11,453	10,394	9,820	0.93	3.94	0.32	0.44	0.30	0.32	0.45	0.61	0.54	42

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

r = Excess delta conditions with export/inflow ratio concerns.

N.C. = Not computed due to insufficient data.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

May 2001

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	March 21, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.49
	March 21, 2001	Diazinon	0.01
	March 21, 2001	Simazine	0.02
	March 21, 2001	Diuron	0.28
California Aqueduct At Banks Pumping Plant	March 21, 2001	Diuron	0.69
	March 21, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.34
	March 21, 2001	Diazinon	0.01
	March 21, 2001	Simazine	0.12
Delta Mendota Canal At McCabe Road	March 20, 2001	Diazinon	0.01
	March 20, 2001	Simazine	0.09
	March 20, 2001	Diuron	0.69
	March 20, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.35
California Aqueduct Near Kettleman City (Check 21)	March 20, 2001	Diuron	0.60
	March 20, 2001	Simazine	0.08
	March 20, 2001	Diazinon	0.01
	March 20, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.37
California Aqueduct At Tehachapi Afterbay (Check 41)	March 21, 2001	Diazinon	0.01
	March 21, 2001	Simazine	0.05
	March 21, 2001	Diuron	0.73
	March 21, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.31
Devil Canyon Power Plant At Entrance To Santa Ana Pipeline	March 21, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.31
	March 21, 2001	Diuron	1.55
	March 21, 2001	Diazinon	0.01
	March 21, 2001	Simazine	0.02

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

May 2001

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	5,625,792	1,276,704	28,014	26,439	650,688	650,688	387,780	16,475
2	5,126,688	854,784	24,962	22,078	422,784	422,784	318,720	10,920
3	6,591,744	857,664	21,350	21,896	465,408	465,408	358,065	13,647
4	6,293,664	876,096	25,095	25,109	471,360	471,360	393,025	14,636
5	5,384,160	867,168	28,294	25,417	481,152	481,152	379,755	14,615
6	1,440	6,180,192	32,788	27,272	469,632	469,632	377,615	14,551
7	8,639,424	459,360	29,750	27,993	467,328	467,328	390,700	14,455
8	7,278,048	873,792	27,510	28,028	474,624	474,624	418,545	13,756
9	8,289,504	882,144	34,846	32,494	119,808	119,808	411,865	12,947
10	6,872,256	868,896	35,140	30,345	313,728	313,728	427,785	13,378
11	7,066,656	846,144	32,683	32,599	415,104	415,104	428,130	14,759
12	6,662,304	854,784	31,213	26,075	463,488	463,488	408,240	14,844
13	887,616	4,973,184	29,400	20,797	461,760	461,760	405,045	14,941
14	7,154,208	719,712	27,720	27,433	436,800	436,800	274,820	698
15	7,381,152	704,448	22,176	23,051	362,112	362,112	264,085	181
16	6,762,528	858,240	28,091	27,580	338,880	338,880	264,785	182
17	7,377,696	718,272	23,338	26,523	341,568	341,568	277,690	185
18	5,925,600	713,664	16,163	18,186	377,664	377,664	265,450	213
19	4,494,240	707,040	17,164	12,516	354,432	354,432	258,270	224
20	4,310,784	3,501,504	14,056	8,729	367,488	367,488	258,310	228
21	6,434,208	868,032	20,447	24,010	374,592	374,592	303,385	243
22	7,645,248	851,904	22,680	31,927	330,432	330,432	307,150	227
23	7,786,368	852,192	20,608	28,819	143,040	143,040	275,330	224
24	8,839,008	588,960	19,712	27,741	159,552	159,552	311,070	228
25	8,928,576	851,616	20,111	25,851	160,512	160,512	269,260	231
26	4,322,304	868,608	19,971	21,945	159,936	159,936	175,815	208
27	534,528	4,015,584	21,168	20,958	189,888	189,888	158,205	187
28	2,683,008	1,619,424	19,957	21,119	117,120	117,120	103,800	183
29	7,779,456	1,308,096	20,979	24,570	18,240	18,240	137,670	201
30	9,976,320	862,848	22,554	26,936	19,200	19,200	40,745	231
31	9,925,056	834,912	25,809	33,824	19,392	19,392	65,830	272
Total	192,979,584	42,115,968	763,749	778,260	9,947,712	9,947,712	9,116,940	188,270

Table 36. San Luis Field Division Energy Data

(in kWh)

May 2001

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	672,192	261,192	2,030,688	696,688	6,336	6,336
2	814,464	403,464	1,332,000	-2,000	12,672	12,672
3	838,656	427,656	1,806,624	456,624	622,944	622,944
4	1,159,920	748,920	1,866,240	6,240	10,656	10,656
5	1,102,608	691,608	3,885,408	2,029,408	6,336	6,336
6	1,539,216	1,131,216	2,261,664	1,791,664	8,064	8,064
7	1,072,080	661,080	3,660,480	1,752,480	6,048	6,048
8	1,135,296	724,296	2,875,104	581,104	7,488	7,488
9	1,269,648	858,648	3,095,424	785,424	7,776	7,776
10	1,261,008	820,008	3,612,096	1,566,096	6,624	6,624
11	1,405,440	964,440	3,596,256	1,308,256	6,624	6,624
12	1,452,240	1,011,240	4,747,680	2,745,680	5,472	5,472
13	1,799,568	1,367,568	4,848,480	2,242,480	1,440	1,440
14	1,231,920	790,920	3,768,480	1,458,480	6,624	6,624
15	1,402,992	961,992	3,343,104	1,085,104	4,608	4,608
16	1,329,408	888,408	3,227,616	1,239,616	316,800	316,800
17	1,423,728	844,728	3,985,632	1,728,632	6,048	6,048
18	1,473,120	894,120	3,729,312	1,824,312	6,336	6,336
19	1,218,672	639,672	4,588,416	2,458,416	5,760	5,760
20	1,480,896	904,896	1,597,824	323,824	12,672	12,672
21	1,151,712	572,712	3,788,352	1,703,352	6,912	6,912
22	1,398,384	819,384	2,959,488	874,488	7,776	7,776
23	1,272,960	693,960	2,777,184	1,357,184	11,232	11,232
24	1,398,528	819,528	2,865,024	1,161,024	10,368	10,368
25	1,498,320	919,320	3,679,488	1,834,488	8,064	8,064
26	1,529,136	950,136	4,206,528	1,986,528	7,488	7,488
27	1,724,256	1,148,256	2,811,744	1,146,744	8,064	8,064
28	1,583,568	1,007,568	3,702,240	2,037,240	221,760	221,760
29	1,515,744	936,744	4,526,208	2,681,208	4,032	4,032
30	1,400,832	821,832	3,196,224	1,351,224	6,912	6,912
31	1,455,552	876,552	3,311,424	1,466,424	7,776	7,776
Total	41,012,064	25,562,064	101,682,432	43,678,432	1,367,712	1,367,712

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

May 2001

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	19,722	52,792	39,942	37,962	39,348	705,960	700,344	1,537,632	5,563,440
2	24,042	64,144	56,610	54,054	55,602	899,712	898,488	2,000,160	7,252,560
3	26,954	73,368	53,010	50,328	52,722	857,088	948,384	2,111,328	7,524,720
4	30,988	84,680	55,296	53,298	54,126	1,076,184	1,073,016	2,401,920	8,795,520
5	28,836	79,368	47,970	45,252	47,502	1,031,256	1,110,312	2,493,216	9,154,080
6	24,820	67,528	58,104	55,800	57,780	1,873,656	1,982,592	4,525,056	16,760,880
7	26,656	71,296	50,472	47,826	49,950	1,014,480	1,077,264	2,397,024	8,526,960
8	27,240	73,040	60,120	57,582	59,544	1,172,736	1,199,592	2,654,496	9,609,840
9	31,140	83,544	59,400	57,384	59,652	1,141,416	1,187,208	2,630,880	9,642,960
10	29,240	78,168	56,862	54,270	55,512	1,203,120	1,215,792	2,661,120	9,314,640
11	33,016	88,528	56,520	53,820	55,440	1,288,368	1,312,848	2,922,624	10,652,400
12	35,022	94,896	53,172	50,796	53,298	1,237,032	1,324,008	2,960,064	10,689,120
13	25,878	71,672	59,994	56,970	57,060	1,893,528	1,987,704	4,525,344	17,013,600
14	27,084	73,600	45,504	43,164	46,008	1,226,592	1,338,624	2,983,968	10,546,560
15	30,934	86,096	45,990	43,344	46,458	1,258,920	1,330,200	2,976,768	10,933,920
16	29,554	80,048	48,978	46,620	48,834	1,225,440	1,253,304	2,778,048	10,044,720
17	33,690	88,920	53,154	50,922	52,938	1,301,688	1,335,096	2,943,360	10,581,840
18	30,968	87,912	66,078	63,198	64,206	1,241,136	1,308,960	2,904,192	10,512,720
19	24,868	72,416	45,342	43,164	45,018	1,141,992	1,138,464	2,491,200	9,028,800
20	22,928	61,192	60,444	57,204	58,752	1,535,256	1,577,808	3,570,912	13,102,560
21	28,424	75,872	47,916	45,180	47,070	1,190,160	1,233,864	2,743,488	10,102,320
22	36,106	100,344	52,092	49,932	51,480	1,149,624	1,175,328	2,592,864	9,546,480
23	36,382	100,360	53,622	50,886	53,514	1,279,944	1,316,016	2,899,296	10,184,400
24	31,786	87,944	54,288	52,146	53,622	1,349,568	1,333,224	2,934,144	10,774,080
25	37,462	104,352	58,842	56,628	59,058	1,347,048	1,343,664	2,992,320	10,700,640
26	37,748	103,112	54,324	51,948	53,118	1,251,000	1,228,752	2,730,240	9,771,120
27	38,126	107,344	56,304	53,892	55,746	1,512,720	1,594,512	3,604,608	13,073,040
28	29,368	79,440	50,832	47,772	50,166	1,544,616	1,592,856	3,567,168	13,059,360
29	37,064	104,256	50,904	48,600	50,850	1,253,808	1,268,424	2,810,304	10,275,840
30	37,966	105,696	67,572	65,412	66,366	1,131,408	1,112,544	2,420,928	8,732,880
31	40,468	110,744	88,956	85,644	84,942	1,103,400	1,019,376	2,183,328	8,205,120
Total	954,480	2,612,672	1,708,614	1,630,998	1,685,682	38,438,856	39,518,568	87,948,000	319,677,120

Table 38. Southern Field Division Energy Data

(in kWh)

May 2001

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	323,344	994,824	1,680,000	145,068	461,808	2,002,560	56,994
2	397,656	894,312	1,490,000	206,808	1,041,624	2,146,656	140,070
3	420,672	1,176,768	1,530,000	201,180	1,052,712	1,887,456	115,458
4	606,760	1,495,008	2,256,000	179,928	936,048	2,392,704	115,080
5	623,952	1,508,184	2,256,000	176,204	875,868	2,243,040	117,978
6	1,011,696	1,576,584	2,208,000	423,640	2,229,168	1,866,528	249,501
7	618,688	1,525,392	2,760,000	169,400	883,908	2,389,728	97,692
8	675,640	1,345,536	2,760,000	196,672	988,260	2,446,272	89,859
9	739,368	1,383,624	2,760,000	167,132	995,496	2,326,752	129,192
10	624,680	1,567,440	2,760,000	210,028	1,072,044	2,315,904	121,254
11	708,232	1,690,920	2,760,000	236,936	1,189,920	2,424,288	149,016
12	642,544	1,115,928	2,760,000	261,576	1,186,440	2,255,424	142,464
13	852,376	1,583,640	2,760,000	424,648	2,617,848	2,337,312	300,951
14	491,792	1,347,768	1,920,000	285,740	1,733,796	2,761,536	260,001
15	518,224	1,029,384	1,920,000	284,004	1,705,404	2,379,264	204,057
16	479,696	1,088,424	1,920,000	258,412	1,545,756	2,349,696	158,592
17	514,080	1,174,968	1,920,000	273,000	1,527,684	2,237,376	191,247
18	527,072	1,149,480	1,920,000	261,968	1,721,628	2,258,496	187,824
19	518,616	1,058,688	1,920,000	219,576	1,098,252	2,312,544	156,912
20	678,832	1,128,312	1,920,000	387,744	1,943,028	2,623,872	215,754
21	572,656	1,347,336	2,256,000	260,736	1,191,660	2,260,128	141,729
22	592,704	1,210,752	2,256,000	222,012	1,050,984	2,468,640	116,529
23	517,776	1,282,896	2,256,000	265,076	1,526,292	2,553,120	188,727
24	518,560	1,392,768	2,256,000	295,092	1,649,040	2,459,904	189,588
25	532,280	1,482,336	2,256,000	287,448	1,612,836	2,497,056	178,080
26	553,560	1,146,456	2,256,000	250,208	1,196,460	2,323,776	151,410
27	1,007,608	1,434,456	2,760,000	240,212	1,325,004	2,410,752	145,005
28	758,968	1,343,520	2,280,000	349,916	1,601,832	2,343,936	176,421
29	537,096	1,371,240	2,256,000	258,580	1,311,084	2,468,544	134,400
30	354,816	954,576	1,608,000	268,716	1,567,896	2,527,584	171,612
31	402,696	998,280	1,608,000	217,588	1,287,840	2,303,424	159,726
Total	18,322,640	39,799,800	68,228,000	7,885,248	42,127,620	72,574,272	4,953,123